

DEFENSE INFORMATION INFRASTRUCTURE (DII)
COMMON OPERATING ENVIRONMENT (COE)

DII COE Remote Access v 1.0.0.2 for
HP-UX 10.20 Software User's Manual (SUM)

Manual

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Software User's Manual (SUM) for

DII COE Remote Access Version 1.0.0.2 (HP-UX 10.20)

PPP CONFIGURATION UTILITY

The PPP Configuration Utility is provided in the Remote Access Segment, Version 1.3. It appears as an icon in the launch window as "PPP Config Utility", and will appear on each remote workstation that has the Remote Access Segment loaded. This is not to be loaded onto the servers.

Note that the default settings for the PPP configuration are loaded during the loading sequence of the Remote Access Segment, Version 1.3, onto each workstation. During this loading, questions such as the phone number to call, the comm server and application server name are entered. The PPP Configuration Utility allows you to override these defaults.

1. Double-clicking on the "PPP Config Utility" icon will launch the PPP Configuration Utility.
2. In general, all modem configuration items are visible within the main window.
3. You may change any or all configuration items. If you decide that you prefer the default values, press the default button at the bottom of the screen.
4. To commit any changes made for the configuration items, press either the "OK" or "APPLY" button at the bottom of the screen. The "OK" button will terminate the application.
5. To Test the Modem, select the File menu and highlight the "Test Modem" option.

This will start up an xterm which executes the /usr/bin/tip (Terminal Interface Program) that will allow you to enter commands to the modem. (Once this is started, any Hayes-compatible modem command may be entered and the results will be visible within the window.)

- a. To perform a RESPONSE TEST:

Type "AT" followed by <CR>.

If an 'OK' is received from the modem, then continue to the HANGUP test.

If an 'OK' is not received, then this usually means the STU III is not connected, the cable is bad, or the STU III is not set for remote control on.

- b. To perform a HANGUP TEST:

Type "~~~+++~~~ATH" followed by <CR>.

If an 'OK' is received, then continue to the TIMED DIAGNOSTICS test.

If an 'OK' is not received, re-enter the response test commands.

- c. To perform a TIMED DIAGNOSTICS TEST:

Type "ATS18=5" followed by <CR>.

IF an 'OK' is received from the modem, then type "AT&T1" followed by <CR>.

IF an 'OK' is received after 15 to 20 seconds, then the test is successful.

If an 'OK' is not received, the test failed. Check the STU III connections/settings.

6. To Startup the Link, select the File menu and press the Control Menu option. From the resulting secondary window, press the "Startup Link" button. The Link Status light should change from red to green.
7. To Shutdown the Link, select the File menu and press the Control Menu option. From the resulting secondary window, press the "Shutdown Link" button. The Link Status light should change from green to red.
8. To exit from the PPP program to terminate the test, enter the following characters, "~.". This will disconnect from the modem and close the xterm.

NOTE:

After the workstation has been rebooted in standalone configuration, the following steps are required to make PPP work. At this time, it is not understood why these steps are necessary, only that they are.

1. Double-click on the "PPP Config Utility" icon to launch the PPP Configuration Utility.
2. Select File -> Control.
3. Select "Startup Link".
4. If the PPP connection fails to establish, select "Startup Link" again. This time the connection should be established. However, the status light may still show the connection as down.
5. Select "Shutdown Link".
6. Select "Shutdown Link" a second time.
7. Select "Startup Link". Now, when the PPP Connection is established, the status light should show green.

NOTE:

In order for a user to login to a workstation in standalone mode, the user must be created as a local account. Also, to use Remote Access the local user must be a member of group "other".

CONTINGENCY MODE OF OPERATION

The addition of the third remote access configuration type (LAN_connect, see GUI Interface for PPP above), provides the basis for contingency mode of operation. This configuration type provides the Sparc5 workstation with both ethernet and PPP connection simultaneously. No transitioning effort is needed. Both streams of communication are available at the same time. The distinguishing difference is the accounts used to access the apps server.

For PPP connection, local accounts rather than global accounts, must be used.

Switching from LAN to PPP connection:

For the contingency mode of operation, LAN_Connect configuration of Remote Access, the following steps should be followed once it has been identified that the network is down and access to the emserver is no longer available.

1. The user logs off.
2. Login as root and run the following script:

```
/h/REMOTE_ACCESS/Scripts/Setup_Contingency_Mode
```

This configures the workstation to operate without a network connection. NFS mounts are disabled and links are setup to allow users to login to the workstation and access their home directories.

3. Reboot the workstation.
4. Once the workstation has rebooted, a user can login using his normal account and password.
5. Use either the “Remote Access” icon to log in, or the “PPP Config Utility” icon to start the PPP link.
 - a) Select the “Remote Access” icon to login to the communications server. The user will either be prompted for username and password, or will be automatically logged in, depending on how Remote Access is setup.
 - b) Select the “PPP Config Utility” icon to launch the PPP Configuration Utility. From the main window, select File->Control Menu, and select the option “Startup Link.”

The Link Status button should change from red to green.

6. Once the link has been established, use the ASCII desktop to perform the necessary data access on the now remote application servers.

Switching from PPP back to LAN connection:

When it has been determined that the LAN is back up and PPP is no longer needed, do the following:

1. Launch the “PPP Config Utility” icon to start the PPP Configuration Utility. From the main window, select File->Control Menu, and select the option “Shutdown Link.”

The Link Status button should change from green to red.

2. You can now log off as the local user.
3. Login as root and run the following script:

```
/h/REMOTE_ACCESS/Scripts/Setup_Normal_Mode
```

This reconfigures the workstation to operate with a network connection. NFS mounts are reenabled and links that were setup to allow users to login to the workstation and access their locally configured home directories are removed.

4. Reboot the workstation.
5. Users can now login as normal.